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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/644,732	_	08/21/2003	Susumu Fukushima	2003_1085A	6199	
513	7590	06/17/2005		EXAMINER		
	•	ND & PONACK, L	WIMER, MICHAEL C			
2033 K STREET N. W. SUITE 800				ART UNIT	PAPER NUMBER	
WASHING	ron, do	20006-1021	2828			
				DATE MAILED: 06/17/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
		10/644,732	FUKUSHIMA ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Michael C. Wimer	2828			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address			
THE I - Exter after - If the - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period we re to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	i6(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	ely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).			
Status						
1)	Responsive to communication(s) filed on					
•	This action is FINAL . 2b)⊠ This action is non-final.					
3)	, production to the months to					
	closed in accordance with the practice under E.	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.			
Dispositi	on of Claims					
5)□ 6)⊠ 7)□	Claim(s) <u>1-34</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) <u>1-34</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or					
Applicati	on Papers					
10)□	The specification is objected to by the Examiner The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the december of the december drawing sheet(s) including the correction to oath or declaration is objected to by the Example 1.	epted or b) objected to by the E frawing(s) be held in abeyance. See on is required if the drawing(s) is obj	37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority u	ınder 35 U.S.C. § 119					
12)⊠ <i>i</i> a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori application from the International Bureau ee the attached detailed Office action for a list of	have been received. have been received in Application ty documents have been receive (PCT Rule 17.2(a)).	on No d in this National Stage			
Attachment	• •	_				
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)	. 4) Interview Summary (Paper No(s)/Mail Dat				
3) 🔲 Inform	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date	5) Notice of Informal Pa				

DETAILED ACTION

Claim Rejections - 35 USC § 112

1. Claims 1-34 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding Claim 1, lines 1-4 are unclear because it is uncertain if *each* plate or the second plate only is to be ½ wavelength. Claims 12 and 23 also contain this problem. In lines 8 and 12, the language "may be" is unclear and not a positive statement of the orthogonal nature of the straight lines recited here because it may imply a variable which may not necessarily cause the lines to be orthogonal. Claim 12 also includes this problem in line 8.

2. The patents to Rammos (5061943), Rahm et al. (5661494) and Bondyopadhyay (5714961) are cited of interest showing orthogonal feeders without the specific 45 degree arrangement, multi-level feed arrangement and wavelength dimensions claimed here.

Allowable Subject Matter

3. Claims 1-34 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael C. Wimer whose telephone number is (571) 272-1833. The examiner can normally be reached on M-F.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Minsun O. Harvey can be reached on (571) 272-1835. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Michael C. Wimer Primary Examiner Art Unit 2828

MCW 6/6/2005